

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
P.D. Bes. 1450
Alexandria, Vignin 22313-1450
www.ndb.gov

DATE MAILED: 04/30/2003

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. | CONFIRMATION NO. 10/050,419 01/16/2002 Timothy Nalette 67,010-021 6804 7590 04/30/2003 CARLSON, GASKEY & OLDS, P.C. EXAMINER 400 WEST MAPLE ROAD SUITE 350 SMITH, DUANE BIRMINGHAM, MI 48009 ART UNIT PAPER NUMBER 1724

BER 7

Please find below and/or attached an Office communication concerning this application or proceeding.

		L
. 1	Application No.	Applicant(s)
Office Action Summary	10/050,419	NALETTE ET AL.
	Examiner	Art Unit
	Duane S. Smith	1724
Th MAILING DATE of this communication app ars on the coversh t with the corresponding address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. Estensions of time may be available under the provisions of 37 CPR. 11 If the period for reply specified above, the maximum statutory as repl If No period for reply specified above, the maximum statutory and Failure to reply visibn the set or extended period for reply will, by statute Any reply received by the Office later than there months after the mailing carned patent term adjustment. See 37 CPR 1,704(b). Status	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) o will apply and will expire SIX (6) MONTHS fro. cause the application to become ABADIC	timely filed tays will be considered timely. on the mailing date of this communication. NED (35 U.S.C. & 133).
1) Responsive to communication(s) filed on	_·	
2a) ☐ This action is FINAL. 2b) ☑ Th	is action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims		
4) Claim(s) 1-25 is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-25</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers		
9) The specification is objected to by the Examine	ır.	
10)⊠ The drawing(s) filed on 16 January 2002 is/are: a) accepted or b) objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.		
12) The oath or declaration is objected to by the Ex	aminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119	(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority document	s have been received.	
2. Certified copies of the priority documents have been received in Application No		
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). See the attached detailed Office action for a list of the certified copies not received. 		
14) Acknowledgment is made of a claim for domesti	•	
a) The translation of the foreign language pro		
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)		
1) Notice of References Cited (PTO-892)	4) T Interview Summ	ary (PTO-413) Paper No(s)
Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1	5) Notice of Informa	al Patent Application (PTO-152)

Art Unit: 1724

 The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: It does not identify the citizenship of each inventor.

It does not state that the person making the oath or declaration acknowledges the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 CFR 1.56 including for continuation in part application, material which became available between the filing of the date of the prior application and the filing date of the continuation in part application.

- 2. If applicant desires priority under 35 U.S.C. 121 based upon a previously filed application, specific reference to the earlier filed application must be made in the instant application. For benefit claims under 35 U.S.C. 120, 121 or 365(c), the reference must include the relationship (i.e., continuation, divisional, or continuation-in-part) of the applications. This should appear as the first sentence of the specification following the title, preferably as a separate paragraph unless it appears in an application data sheet. The status of nonprovisional parent application(s) (whether patented or abandoned) should also be included. If a parent application has become a patent, the expression "now Patent No." should follow the filing date of the parent application. If a parent application has become abandoned, the expression "now abandoned" should follow the filing date of the parent application.
- The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5)
 because they include the following reference sign(s) not mentioned in the description:

"12", "14" as in Fig. 1.

Art Unit: 1724

A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abevance.

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filled under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filled in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 1-8,10,11,16 and 17-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Birbara et al/US Patent No. 6.364,938).

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Birbara et al teach a system(10) for removal of carbon dioxide including a plurality(14,14') carbon dioxide absorbent bed being formed of a secondary amine group having at least one functional nitrile group being a solid weak base ionic exchange resin(col. 1 line 50-col. 2 line 60), conduit for exhaust(34), valve to control gas

Art Unit: 1724

flow(22,24) wherein the valves operate to switch the beds between regeneration and absorption, regeneration device being a heat exchange(col. 3 lines 50-60) or vacuum(28), and a controller(32) for controlling the valves.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1,5,6,7,9,10,11,15,16,17-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Brose et al(US Patent No. 4,822,383)

Brose et al teach a system(10) for removing carbon dioxide including a plurality of absorbent beds(14a, 14b, 14c, 14d) of amine absorbent(col. 2 line 28), conduit for inlet(36,38) and exhaust(44,48) of gas, regeneration device being a vacuum(56) or steam source(24), at least one valve(30,34,32), controller(26), storage tank(col. 3 lines 4-5) and carbon dioxide exhaust(54) conduit.

8. Claims 1,7,8,14,16,17-23 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Simon et et al(US Patent No. 3,738,084).

Simon et al teach a system for removal of carbon dioxide including at least one absorbent bed(11), inlet conduit(3), outlet conduit(4), regeneration device being a .
heater(111), cooling device(101), at least one valve(32'), and carbon dioxide outlet(39).

8. Claims 1,7,8,12,13,16, 17-23 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Yearout (US Patent No. 3,594,983).

Art Unit: 1724

Yearout teaches a system for removal of carbon dioxide from a gas stream being a natural gas(col. 1 line 10) or combustion gas(col. 7 lines50-55) including at least one absorbent bed(A,B,C), gas inlet(6) conduit, gas outlet(16) conduit, carbon dioxide outlet conduit(17), regenerator being a heater(2), at least one valve(12,13,19).

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Colburn et al, Stoneburner ,Netteland et al, Starkston et al, Govind, Zinnen et al, Vansant et al, Birbara et al '254, Liang et al., Birbara et al '488, Schomaker et al, and Gray et al disclose similar methods and systems.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duane S. Smith whose telephone number is 703-308-3792. The examiner can normally be reached on 8:30-6:00 M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Dunn can be reached on 703-308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7718 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Duane S. Smith Primary Examiner Art Unit 1724

Y-25-0